BRUHAT BANGALORE MAHANAGARA PALIKE
RAJARAJESHWARINAGAR ZONE
ELECTRICAL DIVISION
DETAILED ESTIMATE FOR PUBLIC WORKS

Name of the Work: Providing Electrical M and R to Park lightings at ward No.16 RR Nagara Zone.

Est. No.AEE/ELE/RRNZ/ EST/ / 19-20				Est.cost:Rs 2,00,000/-			
Sl No	SR ref		Description of Work	unit	Qty	Rate	Amount
	page	sl no					
1	6	2.5.2	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand copper with low conductor resistence single core wire in open or consealed system of wiring wit specified IS-694:1990 & confirming to GTP of group A.A)1.5 sqmm	Per Mtr	15	18.60	279.00
2	47	6.16.3	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and "C" type curve, indicator ON/OFF,energy cross-3 with Short circuit breaking capacity of 10 K and complete wiring as required confirming to IEC 60898. .40-63 AMPS TPN	Each	1	1936.00	1936.00
3	46	6.12.3	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.60-70Amps	Each	1	4774.00	4774.00
4	51	6.46	Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts, nuts and washers.	Each	1	4586.00	4586.00
5	55	7.4.4	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 4 core 16 sqmm	Per Mtr	85	140.40	11934.00
6	61	7.8.A.1	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. 6 sqmm to 16 sqmm	Per Mtr	85	10.80	918.00
7	62	7.9.1	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary)	Per Mtr	85	78.00	6630.00
8	49	6.40.2	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. with Double door and Top Canopy 16SWG, 25000 sqcm Each (Dimension 900*600*214 mm)	sqcm	25000	0.33	8250.00
9	49	6.39.1	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint -40x40x6mm	mtr	6	263.00	1578.00

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Sl No	SR ref		Description of Work	unit	Qty	Rate	Amount
	page	sl no					
10	6	2.5.5	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A. 6 sqmm	Per Mtr	11	63.80	701.80
11	55	7.1	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia	No	1	2727.00	2727.00
12	41	38	Supply and installaion / Fixing / Provision for mounting of HRC Fuse/ MCB with suitable connector/ terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 SQmm/25 Sqmm 3.5 C Al/ Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof having internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and / or grommets. 200x200x98mm (PWD Electrical SR 2010-11)	Each	10	925.00	9250.00
13A	64	7.21.6	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. (Item No. - 7.21) 16 sqmm (Item No. - 7.21.6)	Each	30	11.31	339.30
13B	64	7.21.7	25 sqmm Long Barrel (Item No. - 7.21.8)	Each	3	20.59	61.77
14	17	3.1	Supplying and fixing hylum plastic sheet 3mm thick with necessary nitches for fixing switches, regulators etc., and fixing on existing wood or metal box using N.F. screws.	Sq CM	3600	0.22	792.00
15	26	4.34.2	LED Post Top Lantern GARDEN.Supply of LED Post Top Lantern with system ... wattage, housing & frame shall be of powder coated, die cast aluminum, diffuser with high density polyethylene IP65 EPDM Gasket. Life 50000 Hrs. @ L70 shall be conforming to IS 10322/Part 5/ Section 5 @ 230V. 5 years Warranty against any manufacturing defect working under standard electrical condition LED Post Top Lantern with 24 watts	Each	9	15930.00	143370.00
16	108	17.6	Fixing charges of post top/ Gate/ Garden fitting /LED on the existing CI / GI or any other pipe using required size of reducer, wiring using suitable wires.	Each	9	145.00	1305.00

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Sl No	SR ref		Description of Work	unit	Qty	Rate	Amount
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17	44	6.7	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. 6.7.2) 32Amps	Each	3	180.00	540.00
			Miscellaneous & round off	L/S			28.13
			Total Rs				200000.00
Rupees Two Lakh Only							

Certificate:-

1) Certified that,the work spot has been inspected by me & prepared the estimate in most economical way of executing the work.

2.) The Provisions made in the estimate are adequate and are necessary.

3.) The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.

4.) The rates in the Estimate is based on the PWD Electrial SR-2014-15 and Lowest quotation approved rates of CE RR Nagar.

Junior Engineer(Electrical)
RR Nagar Zone
BBMP

Assistant Executive Engineer(Elect)
RR Nagar Zone
BBMP

Executive Engineer(Elect)
RR Nagar Zone
BBMP

Administrative Sanctioned for Rs 200000-00
Rs. Two lakhs only
.....Is accorded
under P0298
By EE (E) RRN/Page 22 & 23
Registered as R.R.N. No. 21/19-20 Subject to conditions contained in enclosed memo No. 21/19-20 Date 13/6/19
AE, (Elect) RRN
EE, (Elect) RRN

Technically Sanctioned for Rs 200000-00
Rs. Two lakhs only
.....Is accorded
under the head P0298.
By EE (Elect) RRN/ page 20 & 21
Registered as R.R.N. No. 21/19-20 Subject to conditions contained in enclosed memo No. 21/19-20 Date 14/6/19.
AE, (Elect) RRN
EE, (Elect) RRN